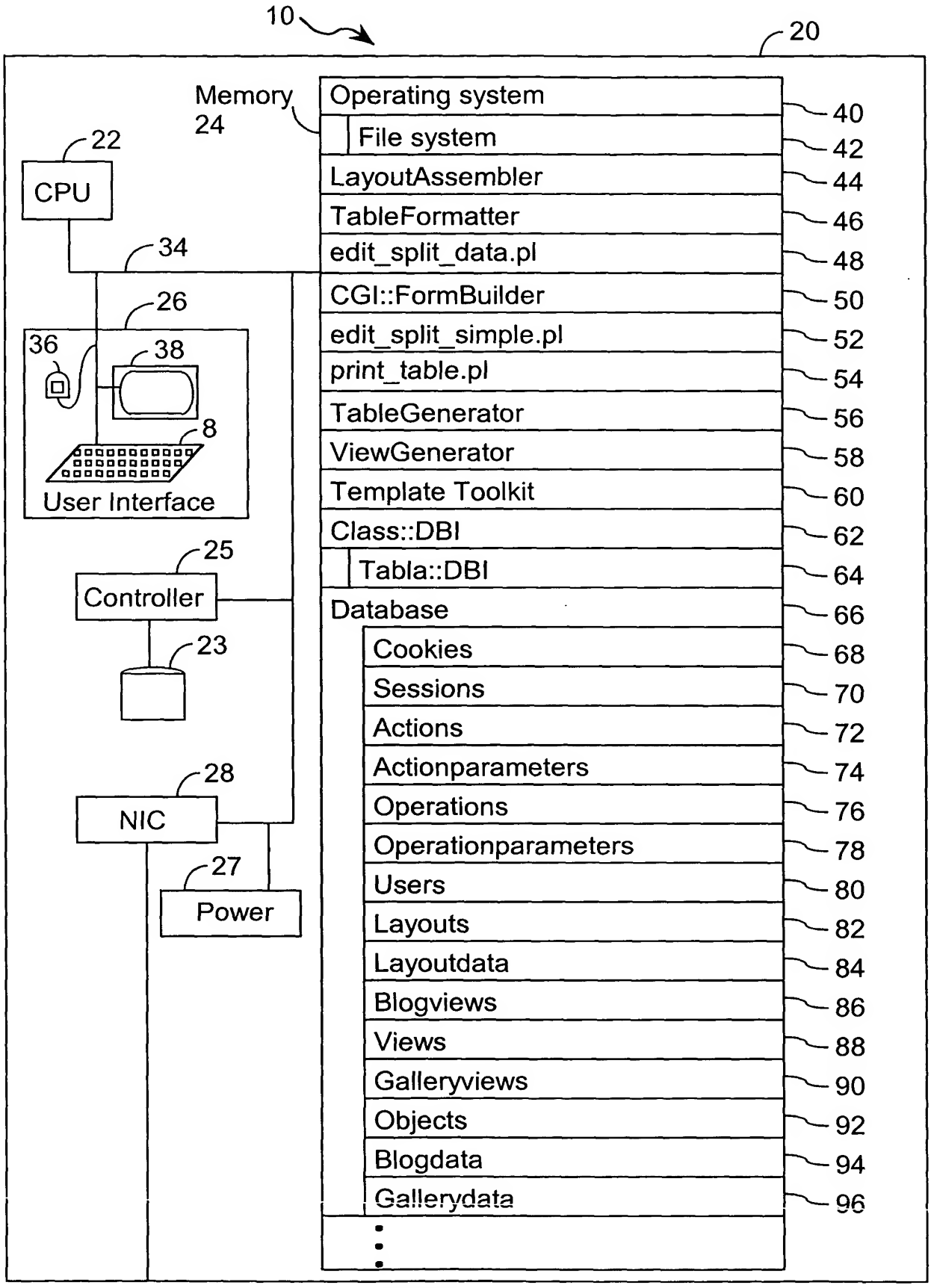
10
20
Memory
24
Operating system
40
File system
42
LayoutAssembler
44
TableFormatter
46
edit_split_data.pl
48
CGI::FormBuilder
50
edit_split_simple.pl
52
print_table.pl
54
TableGenerator
56
ViewGenerator
58
Template Toolkit
60
Class::DBI
62
Tabla::DBI
64
Database
66
Cookies
68
Sessions
70
Actions
72
Actionparameters
74
Operations
76
Operationparameters
78
Users
80
Layouts
82
Layoutdata
84
Blogviews
86
Views
88
Galleryviews
90
Objects
92
Blogdata
94
Gallerydata
96
22
CPU
34
26
36
38
8
User Interface
25
Controller
23
28
NIC
27
Power

FIG. 1

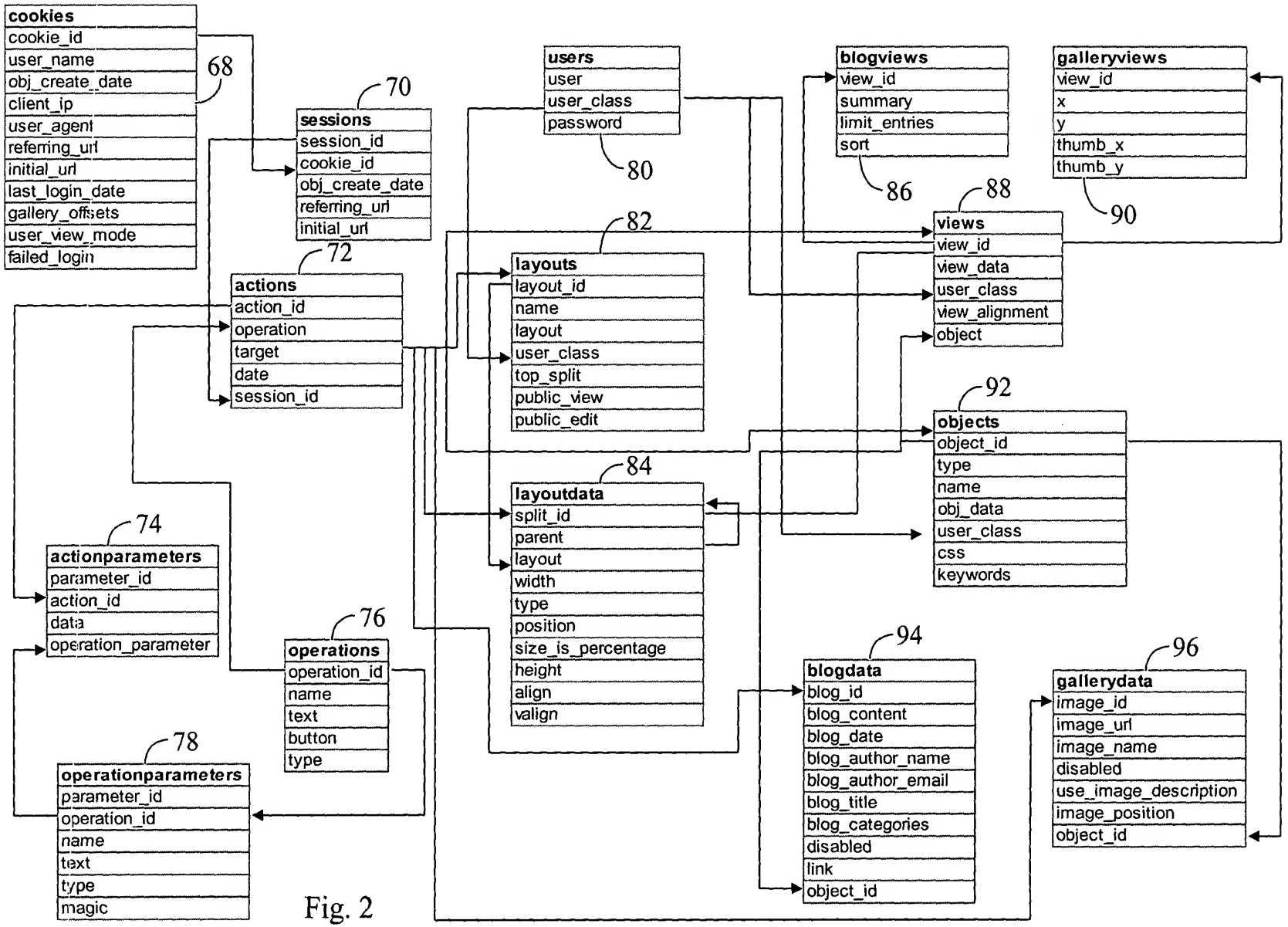
cookies
cookie_id
user_name
obj_create_date
client_ip
user_agent
referring_url
initial_url
last_login_date
gallery_offsets
user_view_mode
failed_login
68
sessions
session_id
cookie_id
obj_create_date
referring_url
initial_url
70
users
user
user_class
password
80
blogviews
view_id
summary
limit_entries
sort
86
galleryviews
view_id
x
y
thumb_x
thumb_y
90
88
views
view_id
view_data
user_class
view_alignment
object
82
layouts
layout_id
name
layout
user_class
top_split
public_view
public_edit
72
actions
action_id
operation
target
date
session_id
92
objects
object_id
type
name
obj_data
user_class
css
keywords
84
layoutdata
split_id
parent
layout
width
type
position
size_is_percentage
height
align
valign
74
actionparameters
parameter_id
action_id
data
operation_parameter
76
operations
operation_id
name
text
button
type
94
blogdata
blog_id
blog_content
blog_date
blog_author_name
blog_author_email
blog_title
blog_categories
disabled
link
object_id
96
gallerydata
image_id
image_url
image_name
disabled
use_image_description
image_position
object_id
78
operationparameters
parameter_id
operation_id
name
text
type
magic

Fig. 2

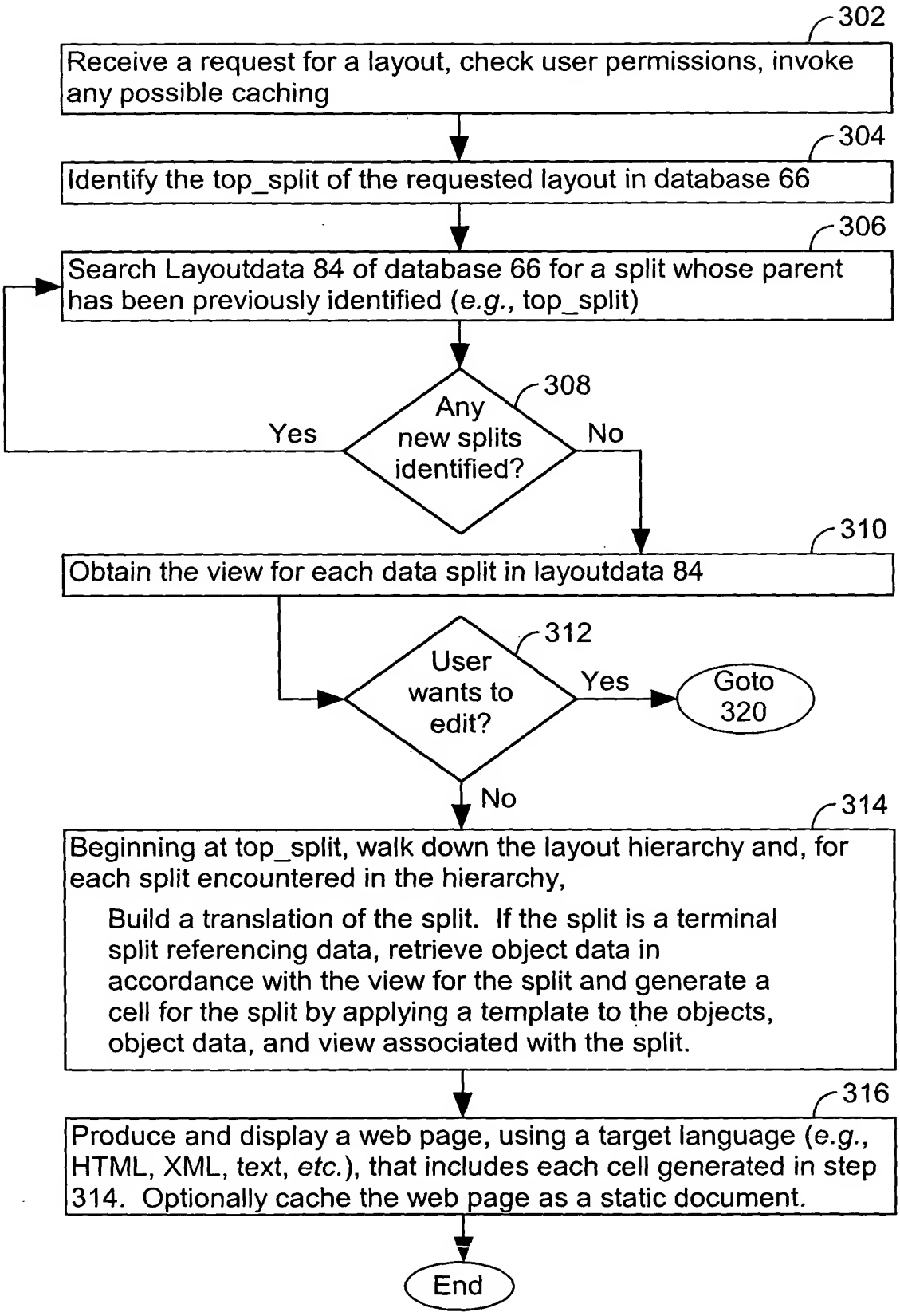
302
Receive a request for a layout, check user permissions, invoke any possible caching
304
Identify the top_split of the requested layout in database 66
306
Search Layoutdata 84 of database 66 for a split whose parent has been previously identified (e.g., top_split)
308
Any new splits identified?
Yes
No
310
Obtain the view for each data split in layoutdata 84
312
User wants to edit?
Yes
Goto 320
No
314
Beginning at top_split, walk down the layout hierarchy and, for each split encountered in the hierarchy,
Build a translation of the split. If the split is a terminal split referencing data, retrieve object data in accordance with the view for the split and generate a cell for the split by applying a template to the objects, object data, and view associated with the split.
316
Produce and display a web page, using a target language (e.g., HTML, XML, text, etc.), that includes each cell generated in step 314. Optionally cache the web page as a static document.
End

FIG. 3A

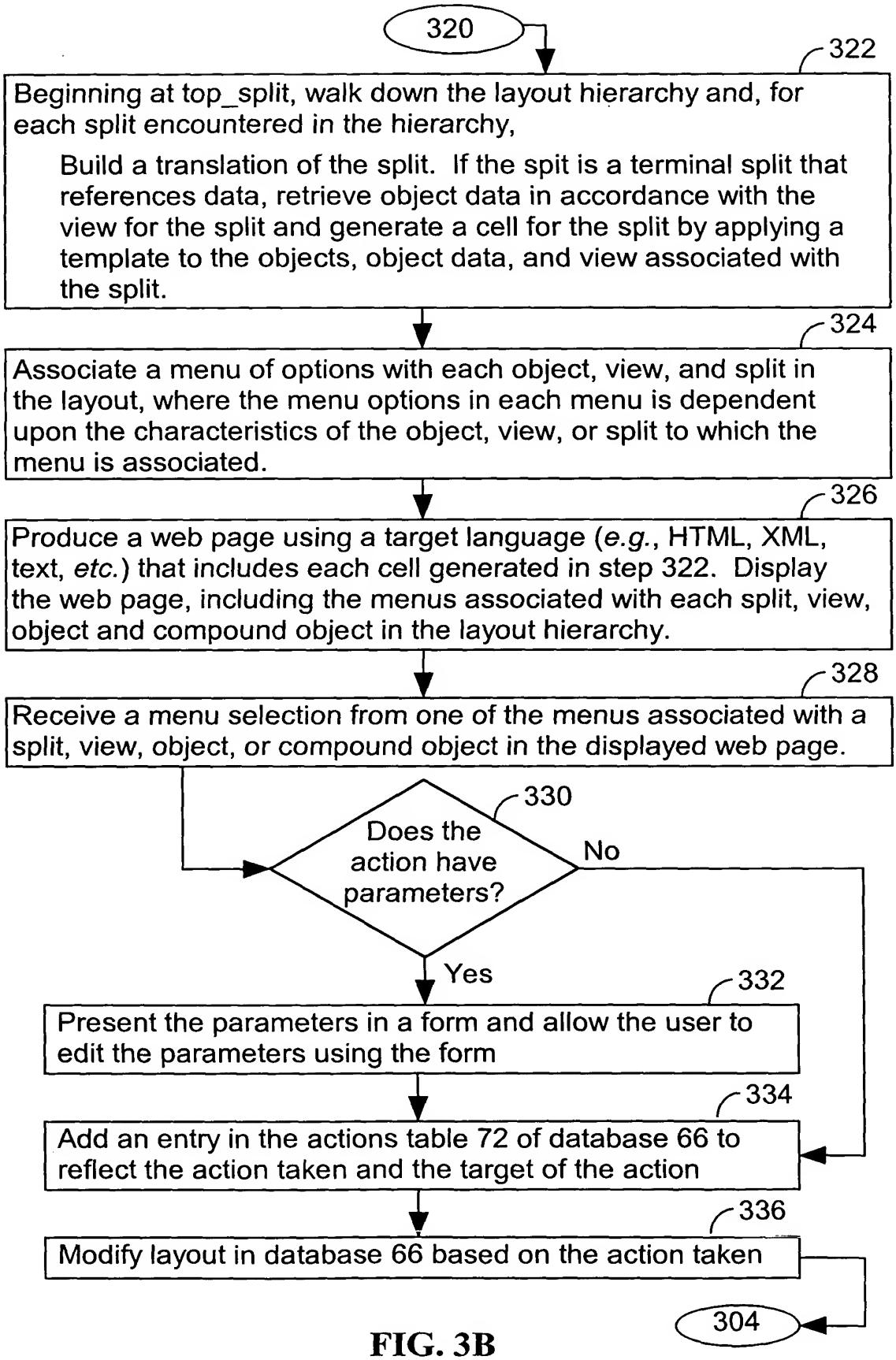
320
322
Beginning at top_split, walk down the layout hierarchy and, for each split encountered in the hierarchy,
Build a translation of the split. If the spit is a terminal split that references data, retrieve object data in accordance with the view for the split and generate a cell for the split by applying a template to the objects, object data, and view associated with the split.
324
Associate a menu of options with each object, view, and split in the layout, where the menu options in each menu is dependent upon the characteristics of the object, view, or split to which the menu is associated.
326
Produce a web page using a target language (e.g., HTML, XML, text, etc.) that includes each cell generated in step 322. Display the web page, including the menus associated with each split, view, object and compound object in the layout hierarchy.
328
Receive a menu selection from one of the menus associated with a split, view, object, or compound object in the displayed web page.
330
Does the action have parameters?
No
Yes
332
Present the parameters in a form and allow the user to edit the parameters using the form
334
Add an entry in the actions table 72 of database 66 to reflect the action taken and the target of the action
336
Modify layout in database 66 based on the action taken
304

FIG. 3B

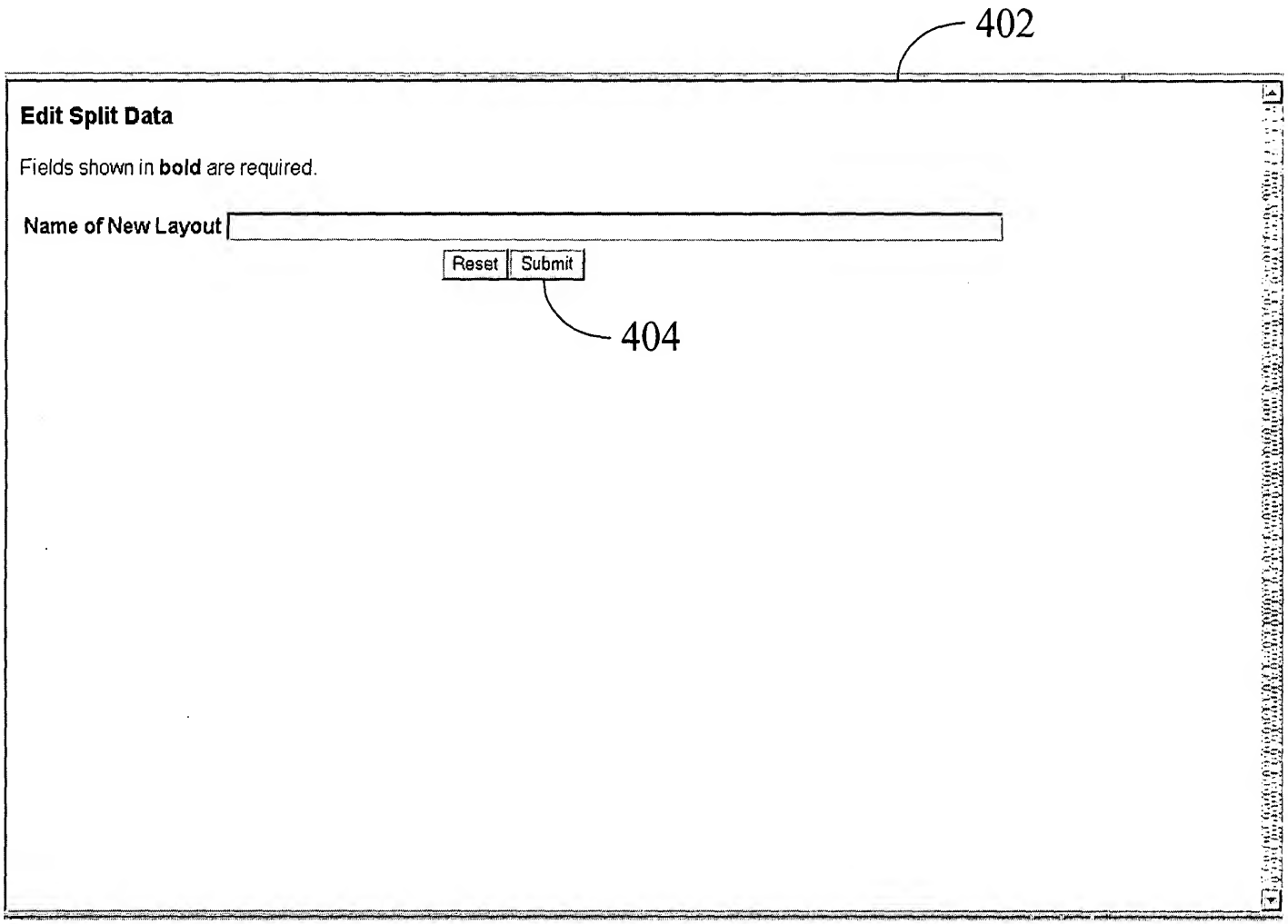
402
Edit Split Data
Fields shown in bold are required.
Name of New Layout
Reset
Submit
404

Fig. 4A

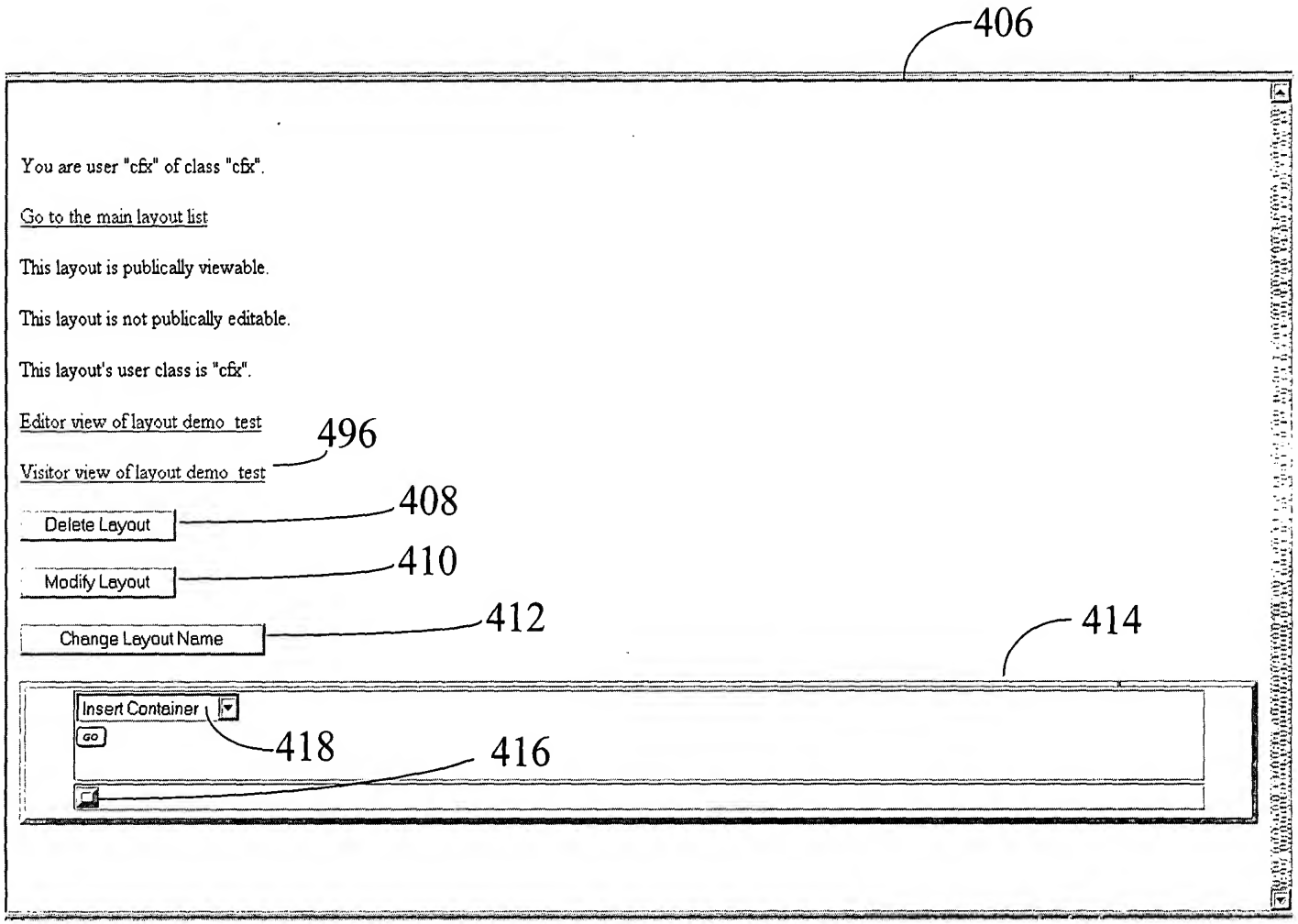
406
You are user "cfx" of class "cfx".
Go to the main layout list
This layout is publically viewable.
This layout is not publically editable.
This layout's user class is "cfx".
Editor view of layout demo_test
Visitor view of layout demo_test
496
Delete Layout
408
Modify Layout
410
Change Layout Name
412
414
Insert Container
go
418
416

Fig. 4B

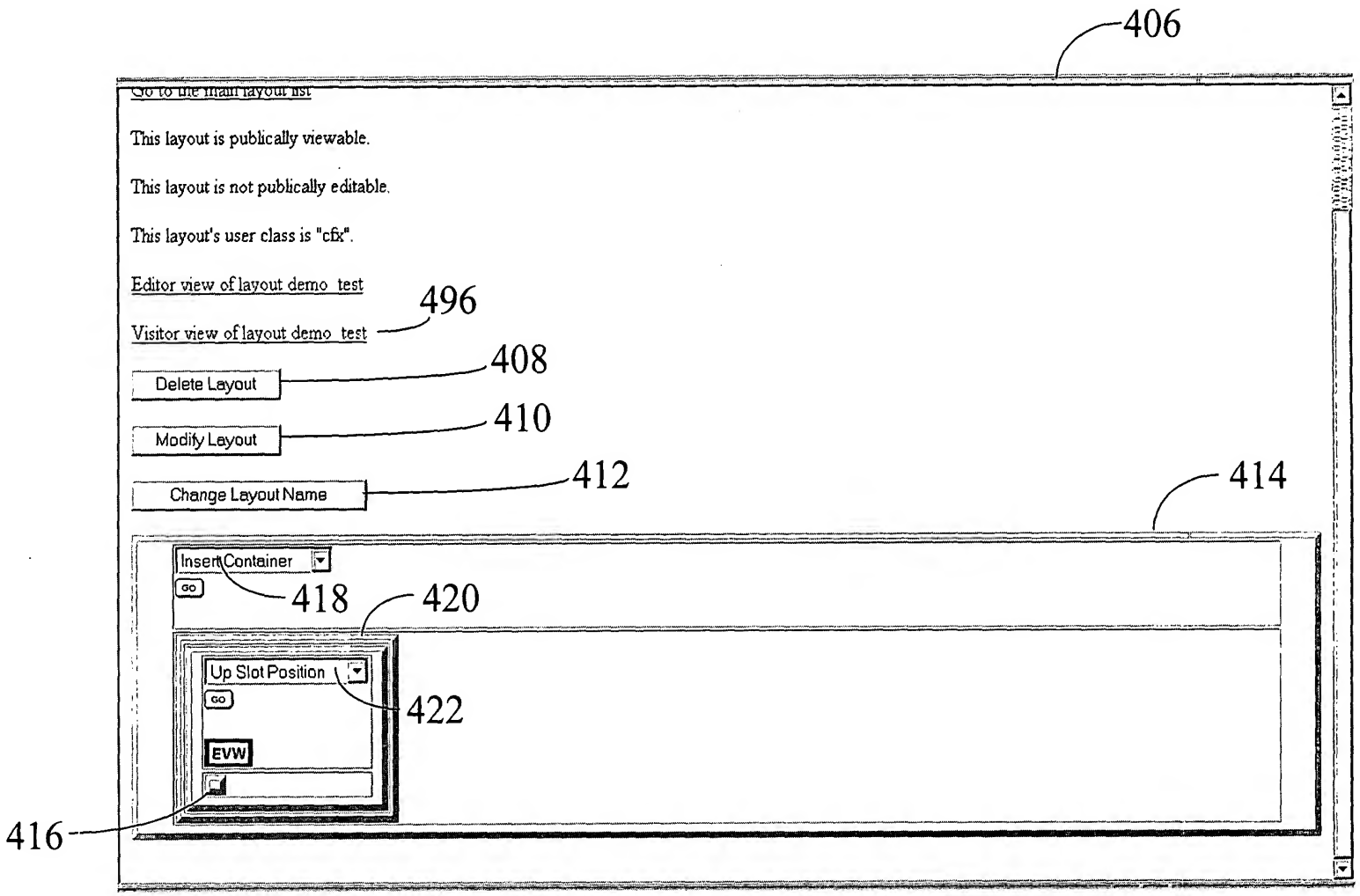
406
Go to the main layout list
This layout is publically viewable.
This layout is not publically editable.
This layout's user class is "cfx".
Editor view of layout demo_test
Visitor view of layout demo_test
496
Delete Layout
408
Modify Layout
410
Change Layout Name
412
414
Insert Container
Go
418
420
Up Slot Position
Go
422
EVW
416

Fig. 4C

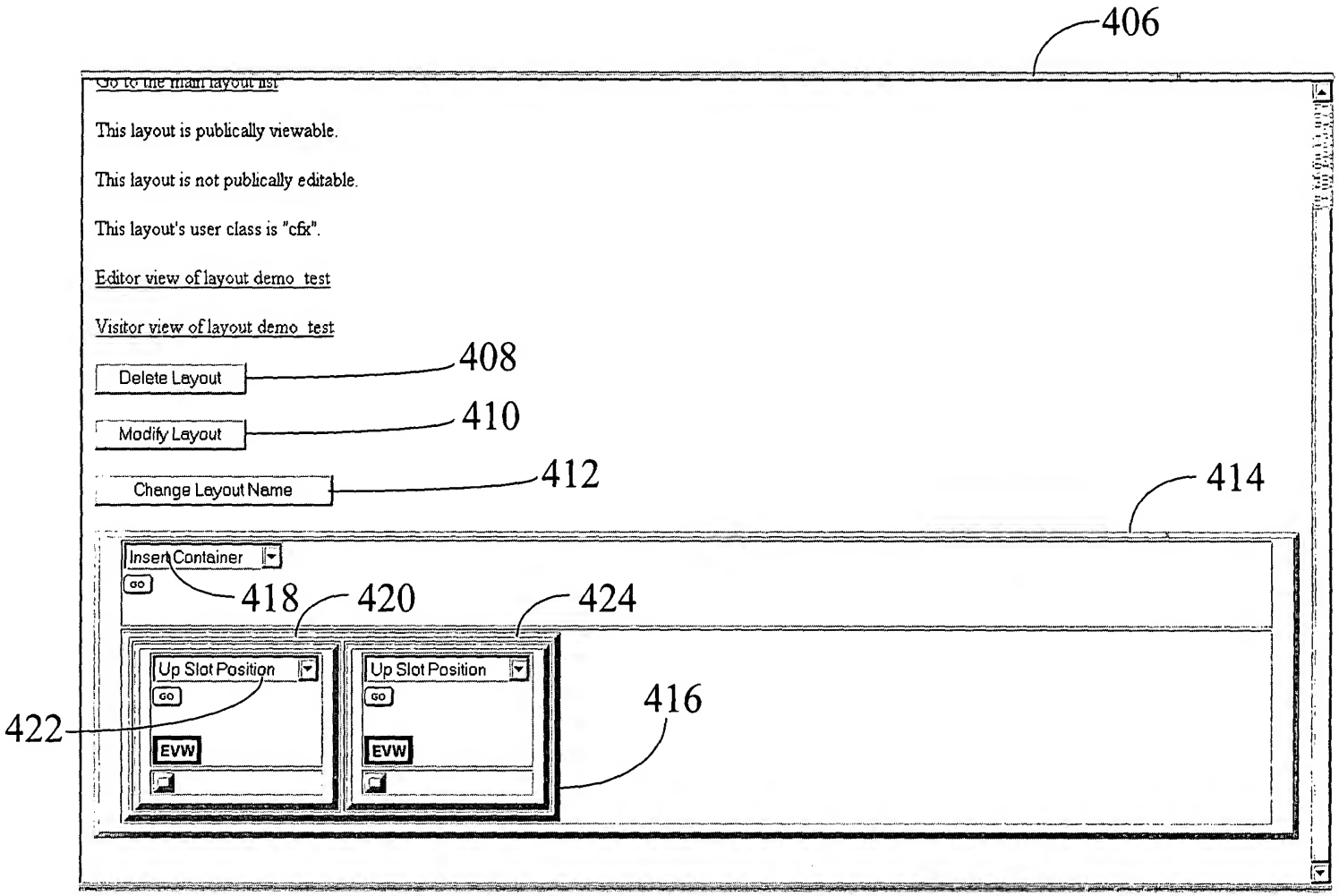
406
Go to the main layout list
This layout is publically viewable.
This layout is not publically editable.
This layout's user class is "cfx".
Editor view of layout demo_test
Visitor view of layout demo_test
Delete Layout
408
Modify Layout
410
Change Layout Name
412
414
Insert Container
go
418
420
424
Up Slot Position
go
EVW
Up Slot Position
go
EVW
416
422

Fig. 4D

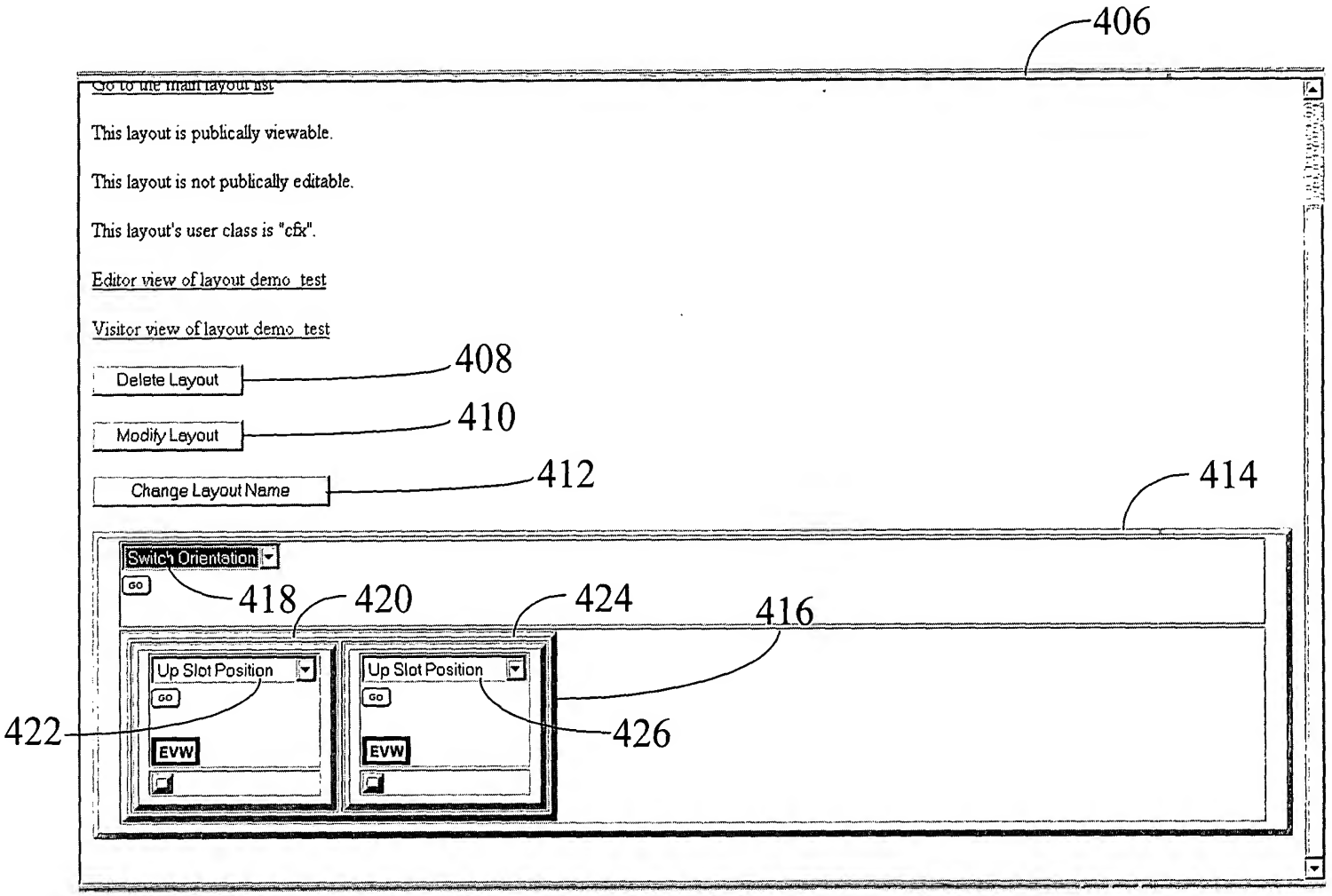
406
Go to the main layout list
This layout is publically viewable.
This layout is not publically editable.
This layout's user class is "cfx".
Editor view of layout demo_test
Visitor view of layout demo_test
Delete Layout
408
Modify Layout
410
Change Layout Name
412
414
Switch Orientation
go
418
420
424
416
Up Slot Position
go
EVW
Up Slot Position
go
EVW
422
426

Fig. 4E

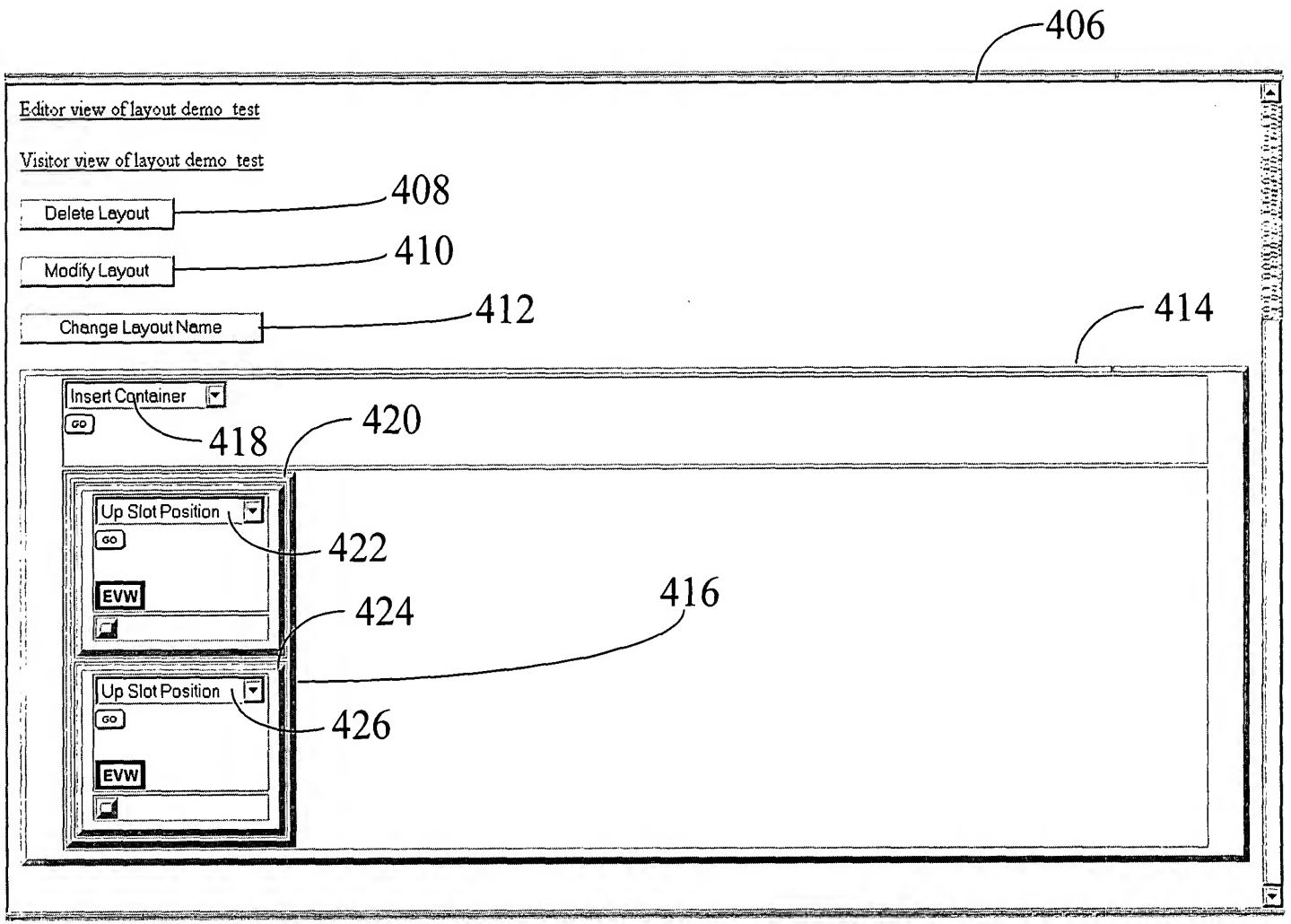
406
Editor view of layout demo test
Visitor view of layout demo test
Delete Layout
408
Modify Layout
410
Change Layout Name
412
414
Insert Container
GO
418
420
Up Slot Position
GO
422
EVW
424
416
Up Slot Position
GO
426
EVW

Fig. 4F

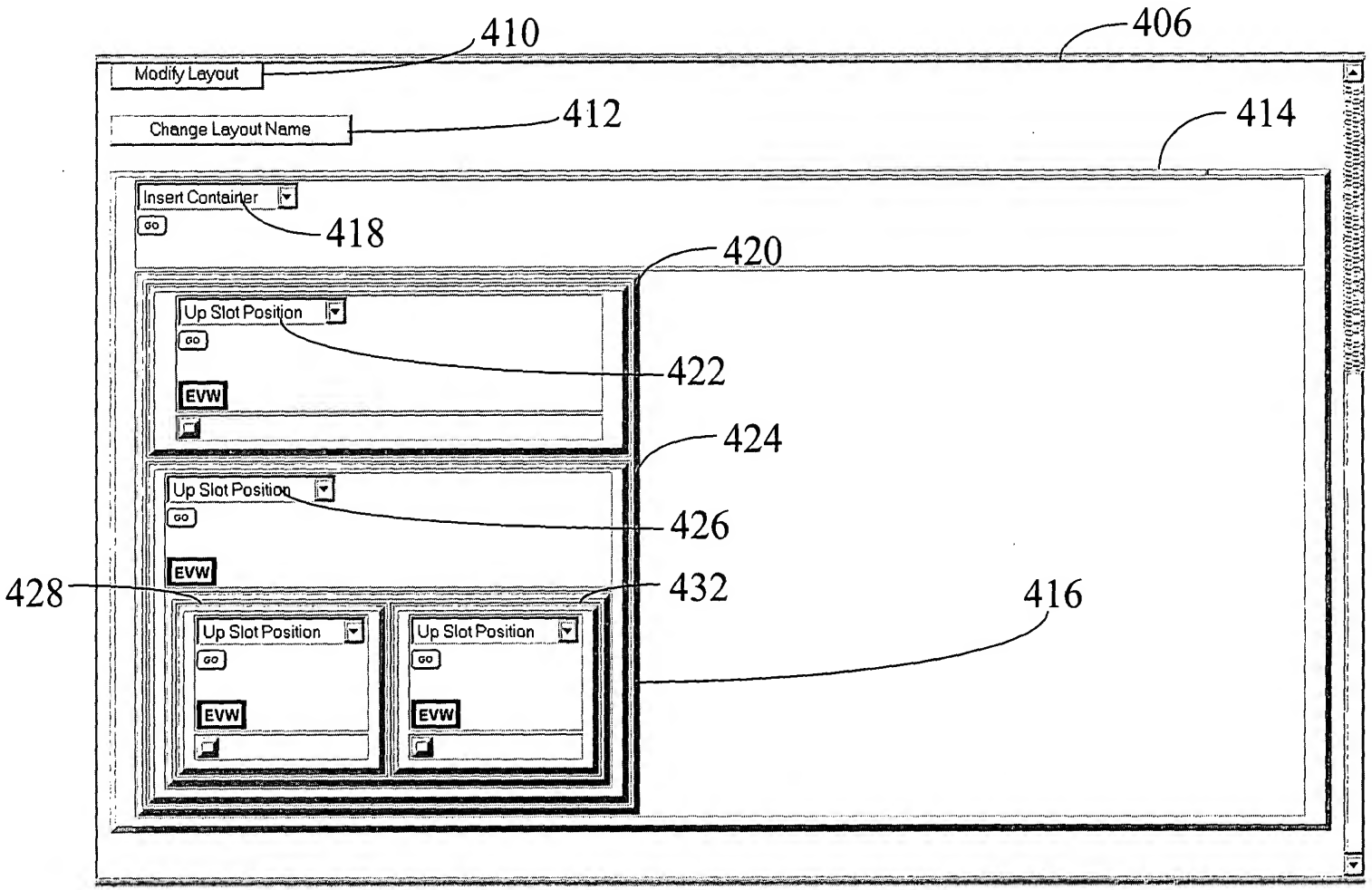
410
406
Modify Layout
412
Change Layout Name
414
Insert Container
418
420
Up Slot Position
422
EVW
424
Up Slot Position
426
EVW
428
432
416
Up Slot Position
Up Slot Position
EVW
EVW

Fig. 4G

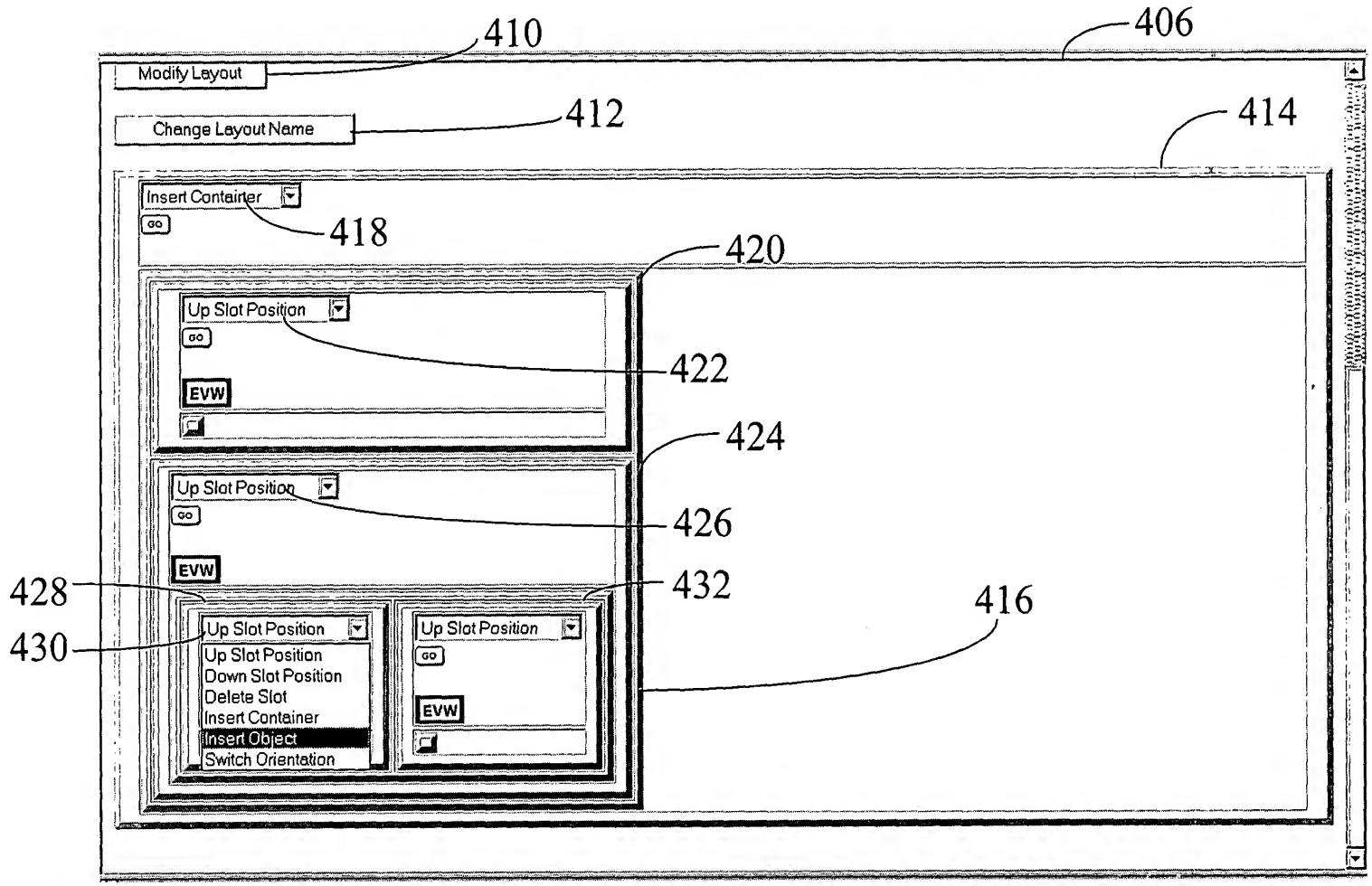
410
406
Modify Layout
412
Change Layout Name
414
Insert Container
418
420
Up Slot Position
422
EVW
424
Up Slot Position
426
EVW
428
432
416
430
Up Slot Position
Up Slot Position
Down Slot Position
Delete Slot
Insert Container
Insert Object
Switch Orientation
Up Slot Position
EVW

Fig. 4H

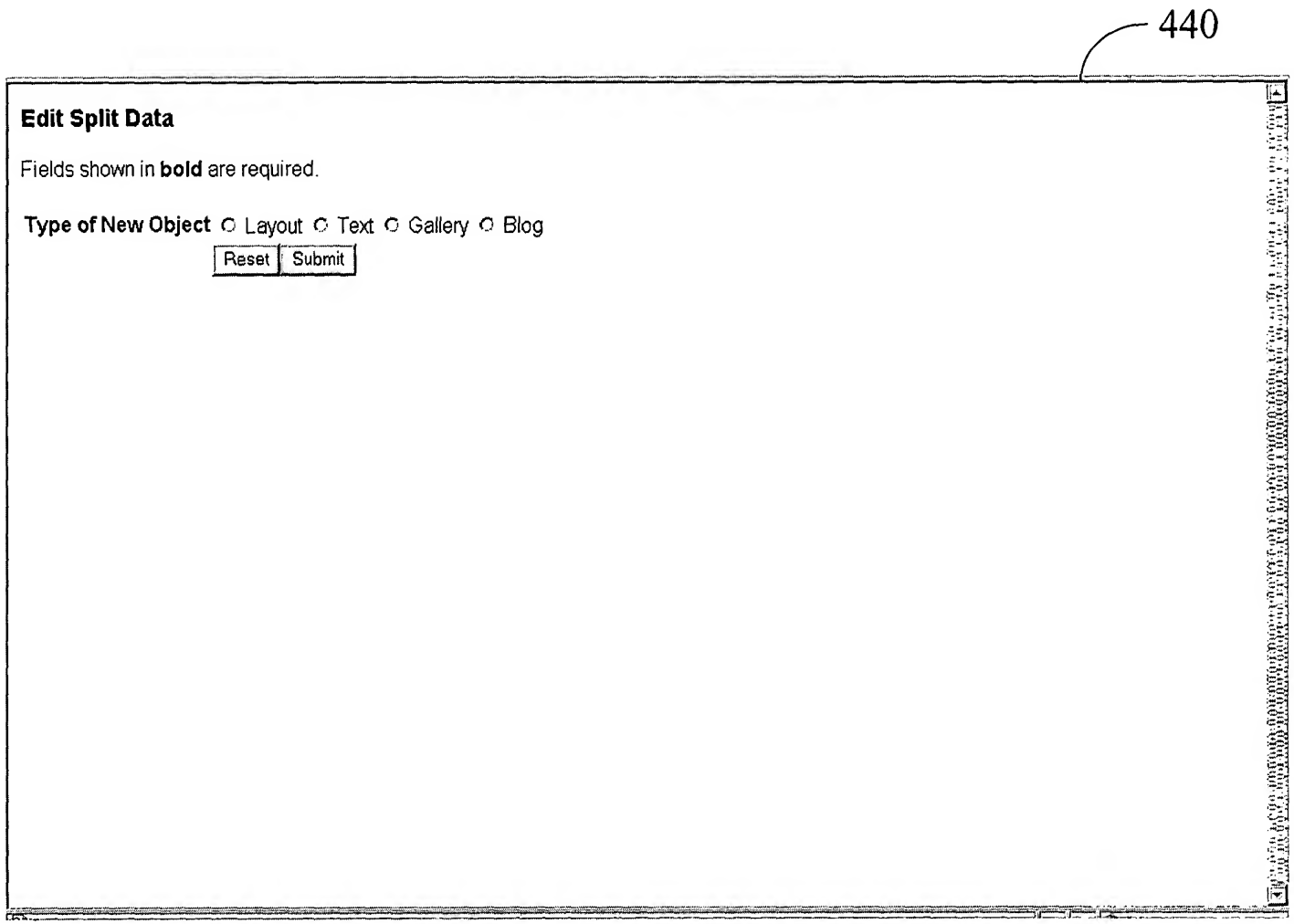
440
Edit Split Data
Fields shown in bold are required.
Type of New Object
Layout
Text
Gallery
Blog
Reset
Submit

Fig. 4I

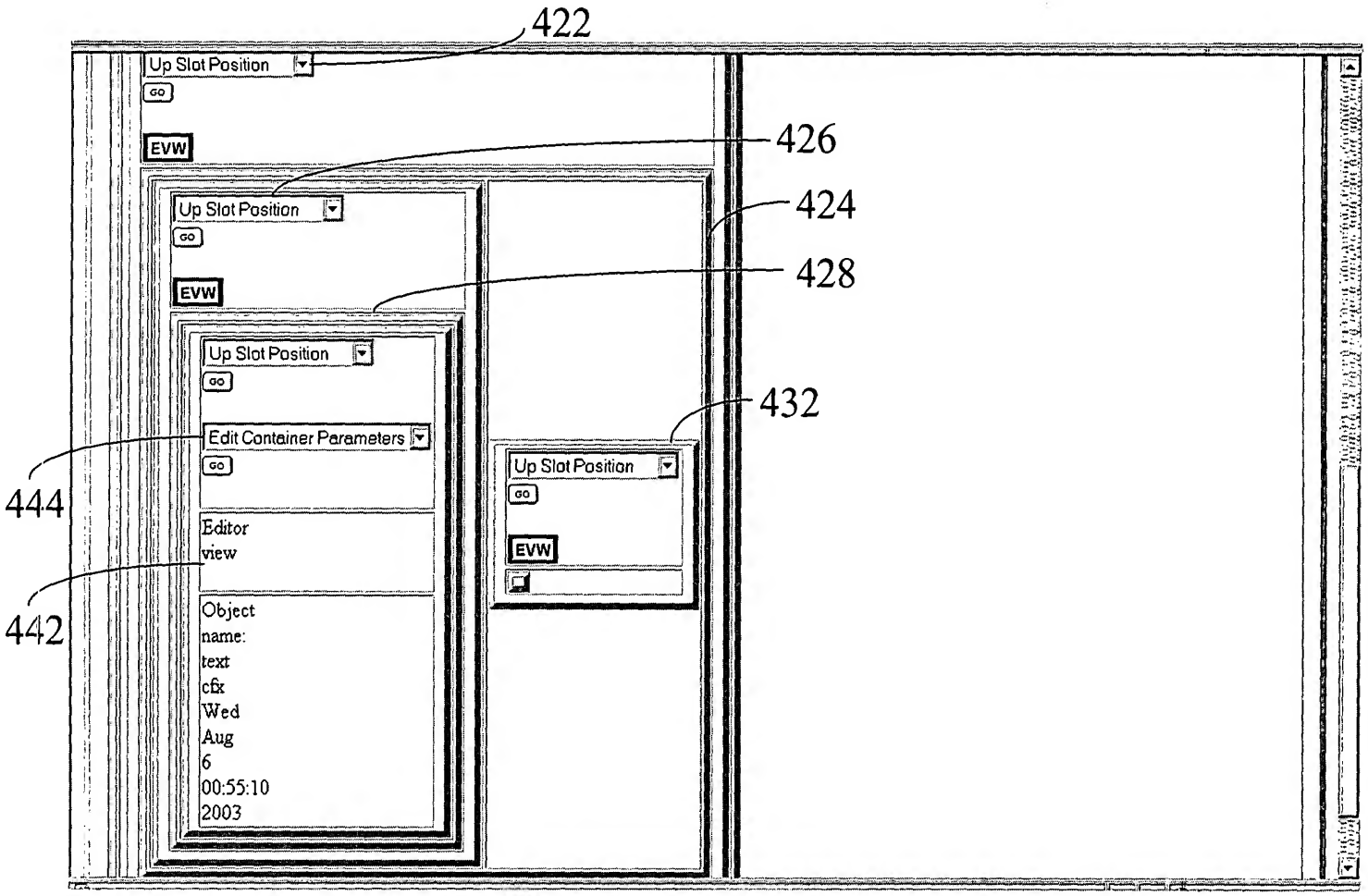
422
Up Slot Position
GO
EVW
426
Up Slot Position
GO
424
EVW
428
Up Slot Position
GO
Edit Container Parameters
GO
444
Editor
view
442
Object
name:
text
cfx
Wed
Aug
6
00:55:10
2003
432
Up Slot Position
GO
EVW

Fig. 4J

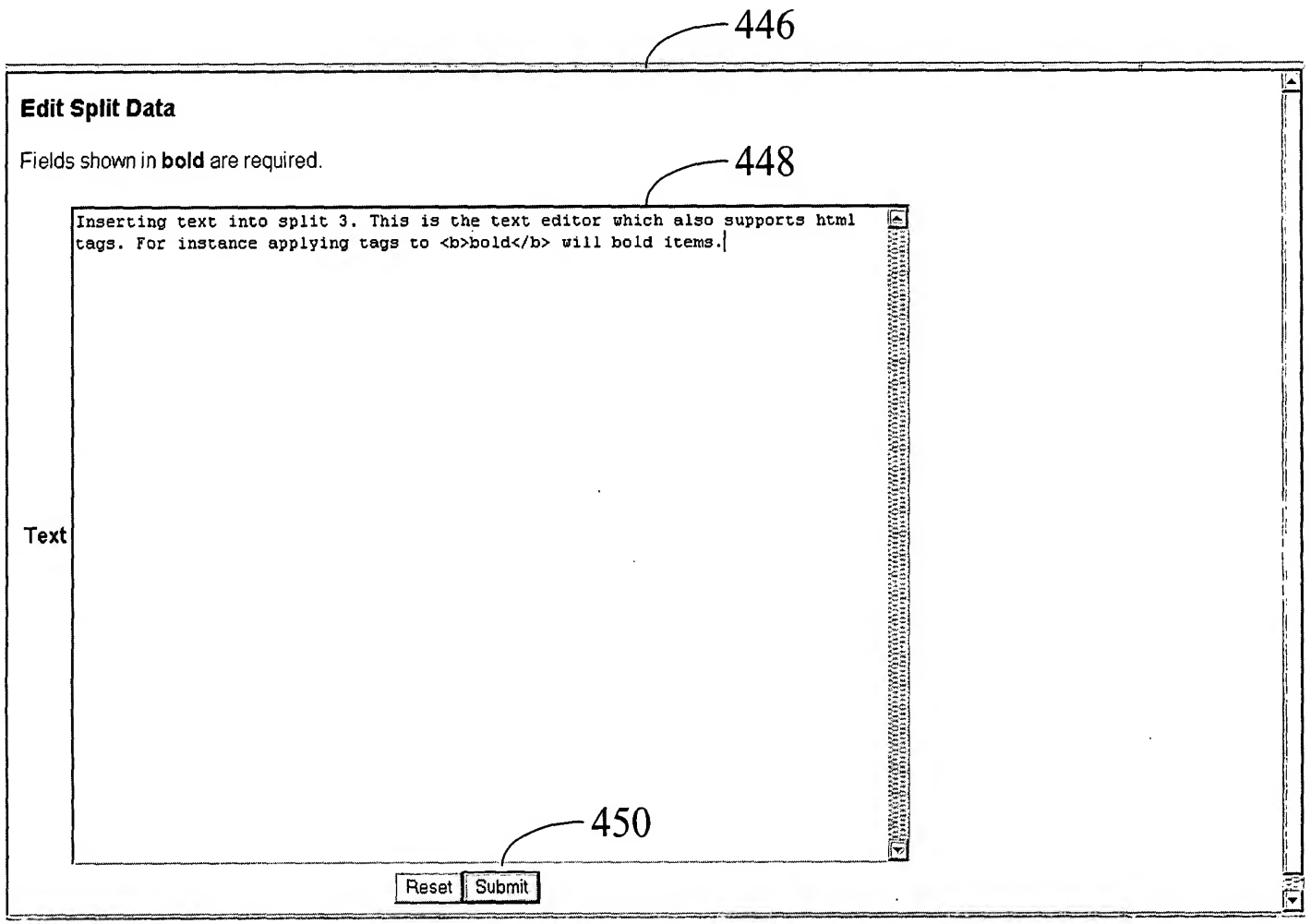
446
Edit Split Data
Fields shown in bold are required.
448
Inserting text into split 3. This is the text editor which also supports html tags. For instance applying tags to bold will bold items.
Text
450
Reset
Submit

Fig. 4K

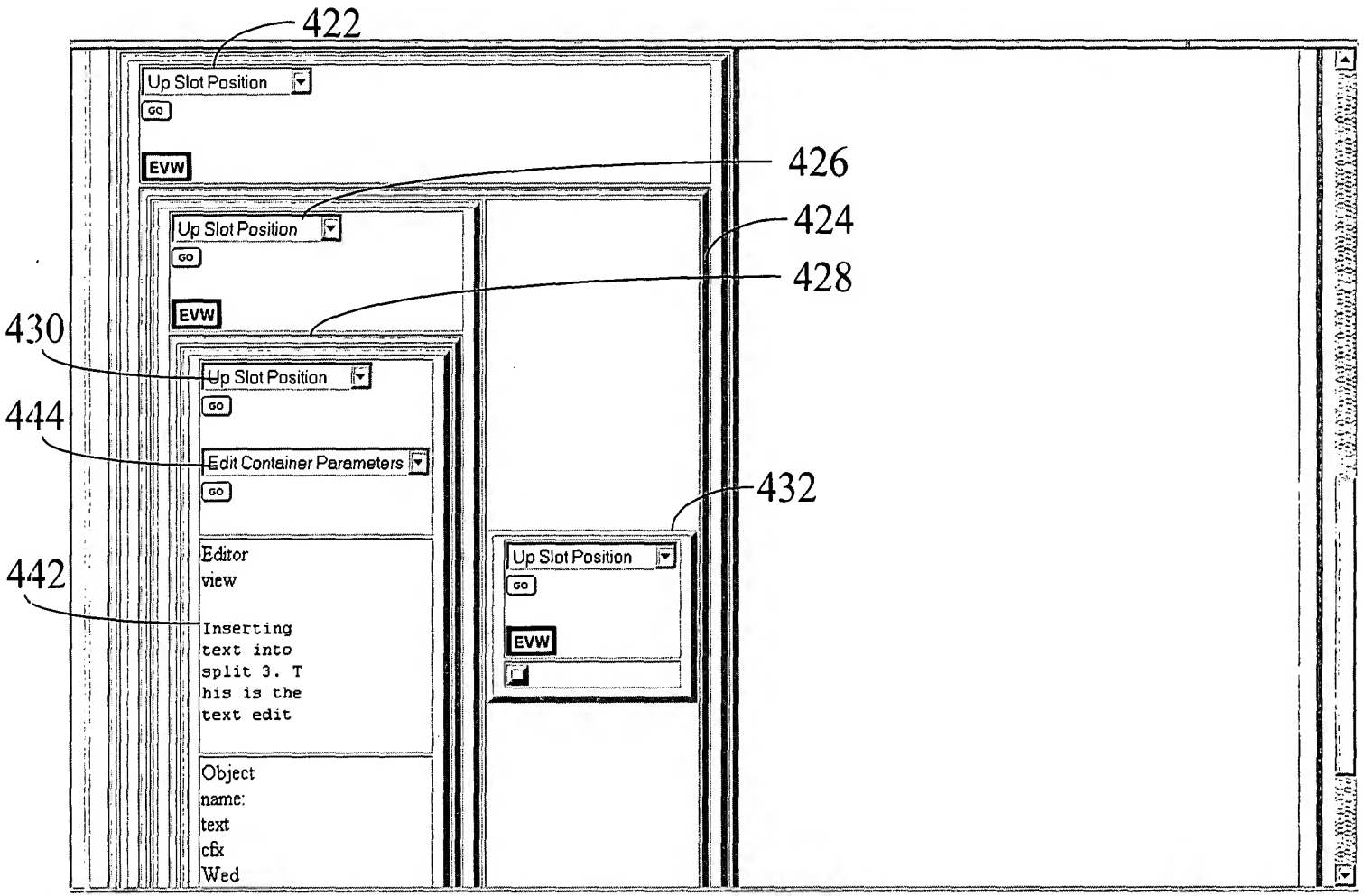
422
Up Slot Position
GO
EVW
426
Up Slot Position
424
GO
428
EVW
430
Up Slot Position
GO
444
Edit Container Parameters
GO
432
Editor
view
442
Inserting
text into
split 3. T
his is the
text edit
Object
name:
text
cfx
Wed
Up Slot Position
GO
EVW

Fig. 4L

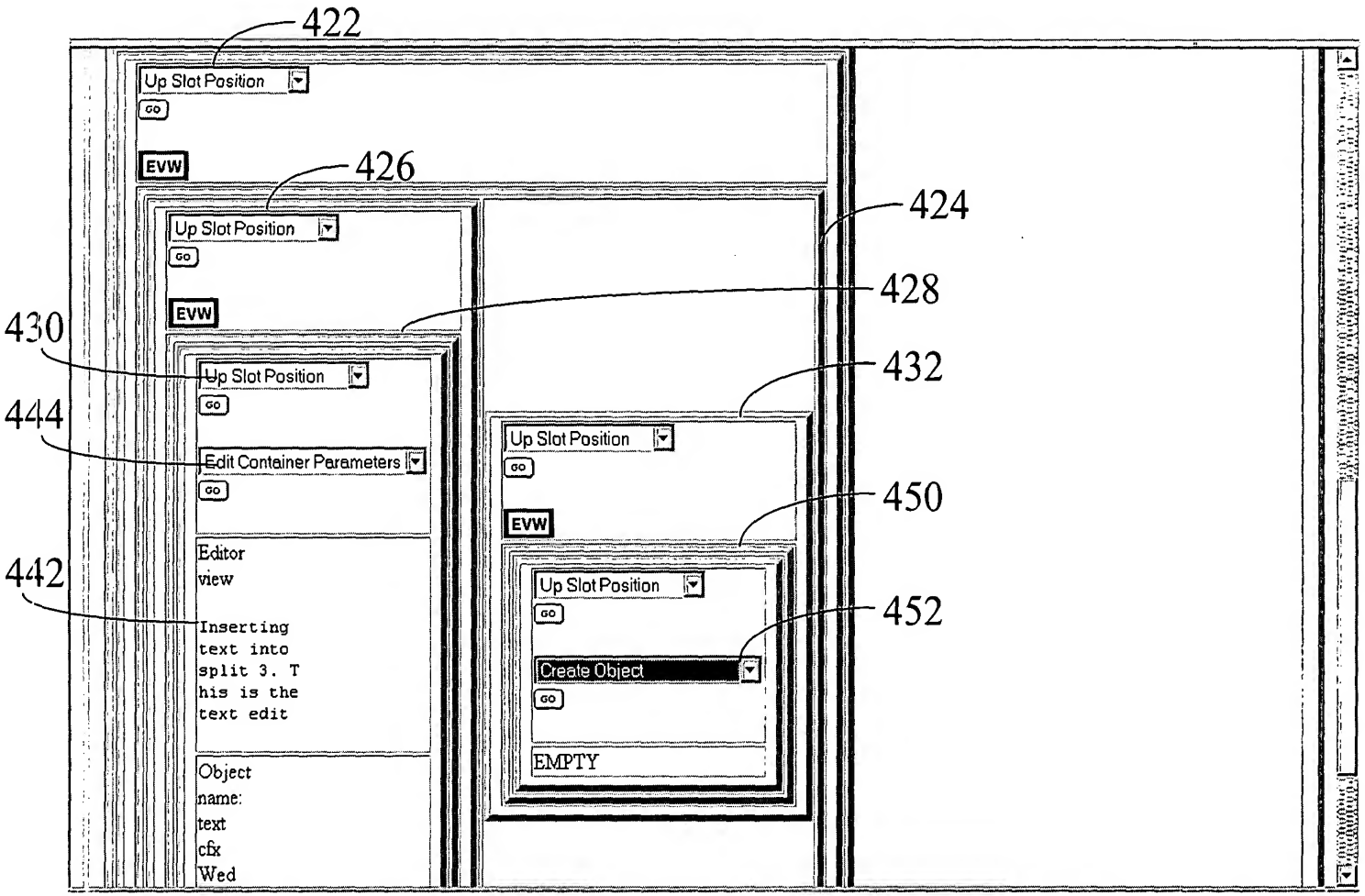
422
Up Slot Position
GO
EVW
426
Up Slot Position
GO
EVW
424
428
430
Up Slot Position
GO
444
Edit Container Parameters
GO
432
Up Slot Position
GO
EVW
450
Up Slot Position
GO
442
Editor
view
Inserting
text into
split 3. T
his is the
text edit
452
Create Object
GO
EMPTY
Object
name:
text
cfx
Wed

Fig. 4M

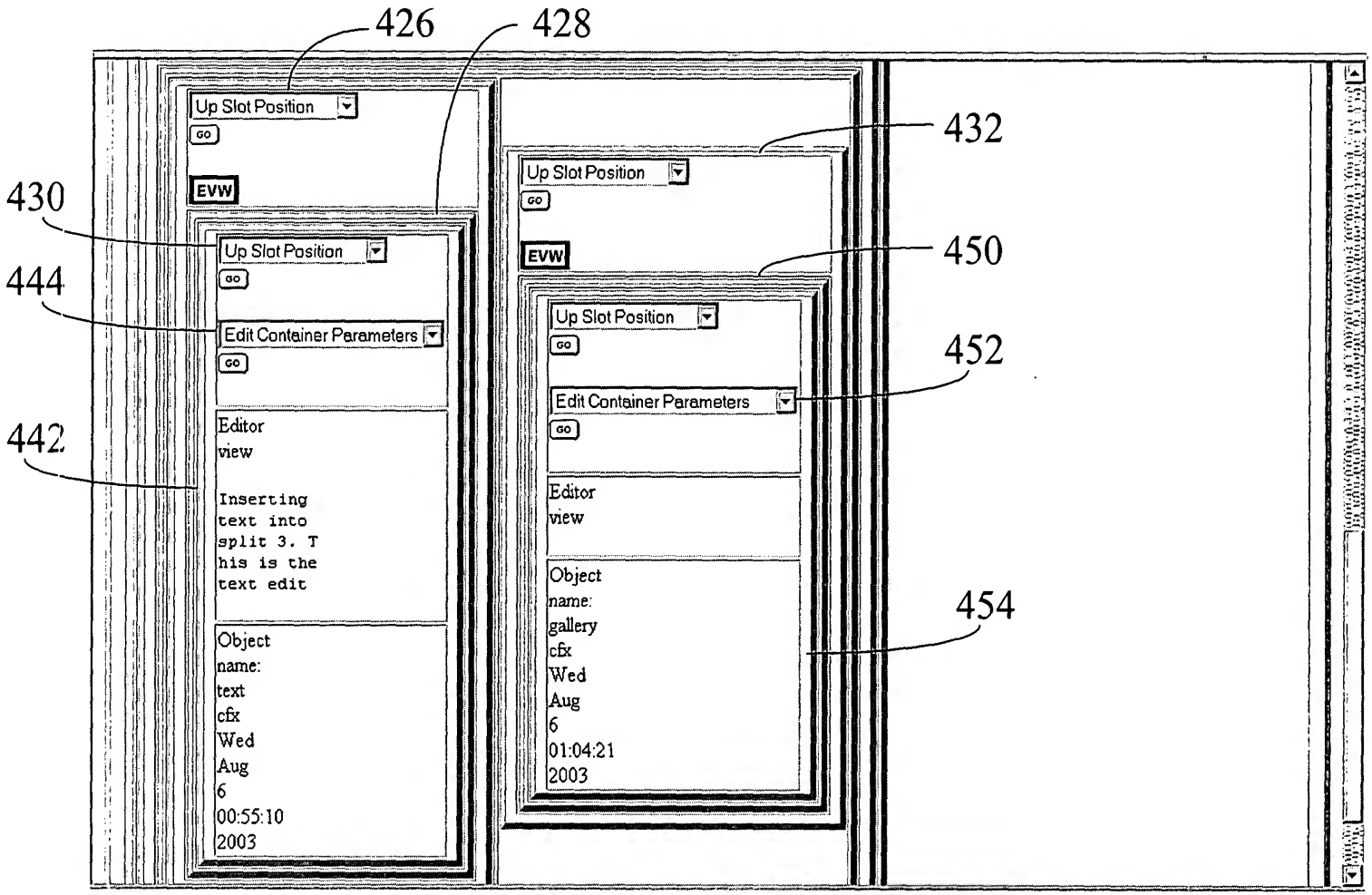
426
428
Up Slot Position
GO
EVW
430
Up Slot Position
GO
444
Edit Container Parameters
GO
442
Editor
view
Inserting
text into
split 3. T
his is the
text edit
Object
name:
text
cfx
Wed
Aug
6
00:55:10
2003
432
Up Slot Position
GO
EVW
450
Up Slot Position
GO
452
Edit Container Parameters
GO
Editor
view
Object
name:
gallery
cfx
Wed
Aug
6
01:04:21
2003
454

Fig. 4N

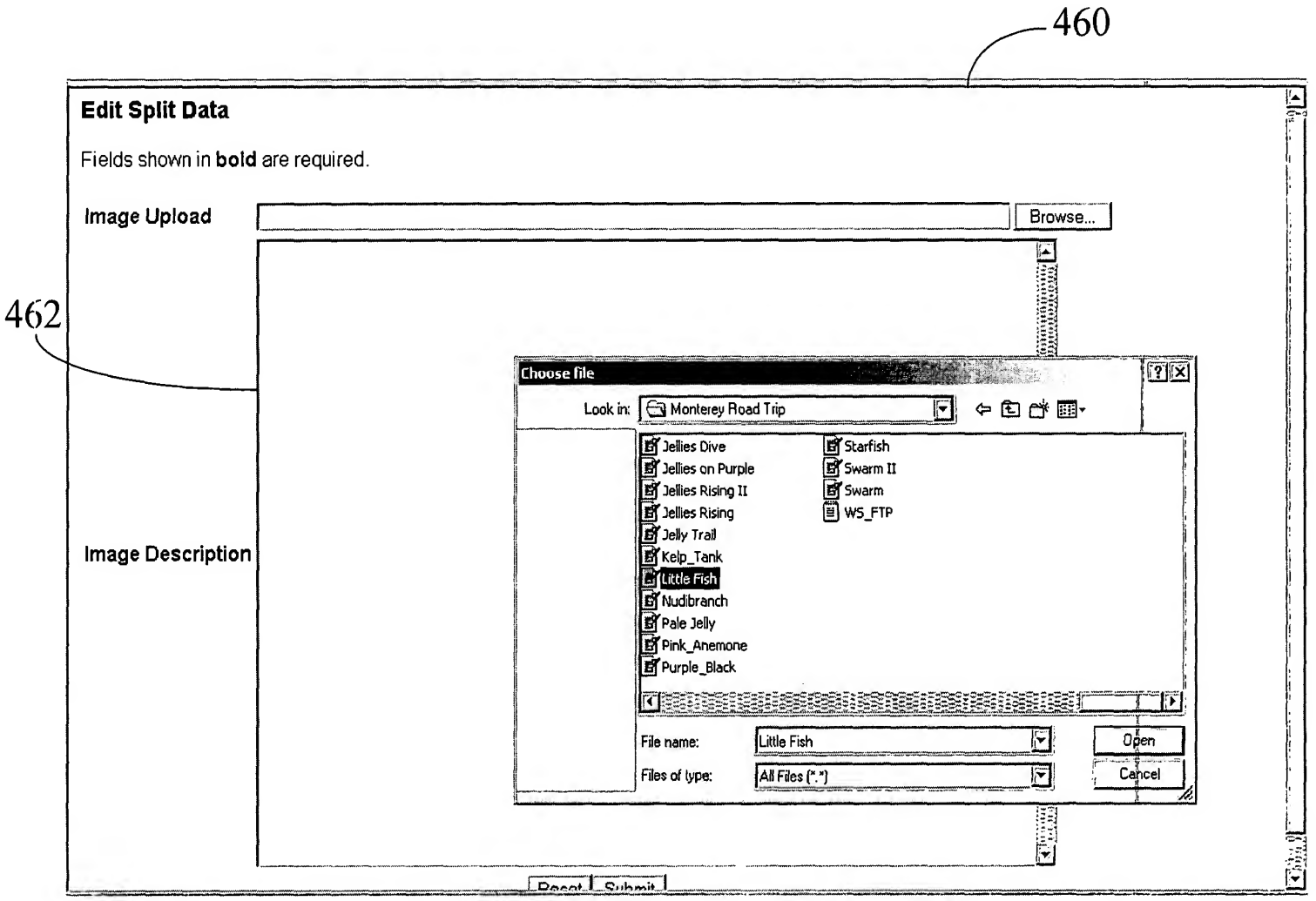
460
Edit Split Data
Fields shown in bold are required.
Image Upload
Browse...
462
Image Description
Choose file
Look in:
Monterey Road Trip
Jellies Dive
Jellies on Purple
Jellies Rising II
Jellies Rising
Jelly Trail
Kelp_Tank
Little Fish
Nudibranch
Pale Jelly
Pink_Anemone
Purple_Black
Starfish
Swarm II
Swarm
WS_FTP
File name:
Little Fish
Files of type:
All Files (*.*)
Open
Cancel

Fig. 4O

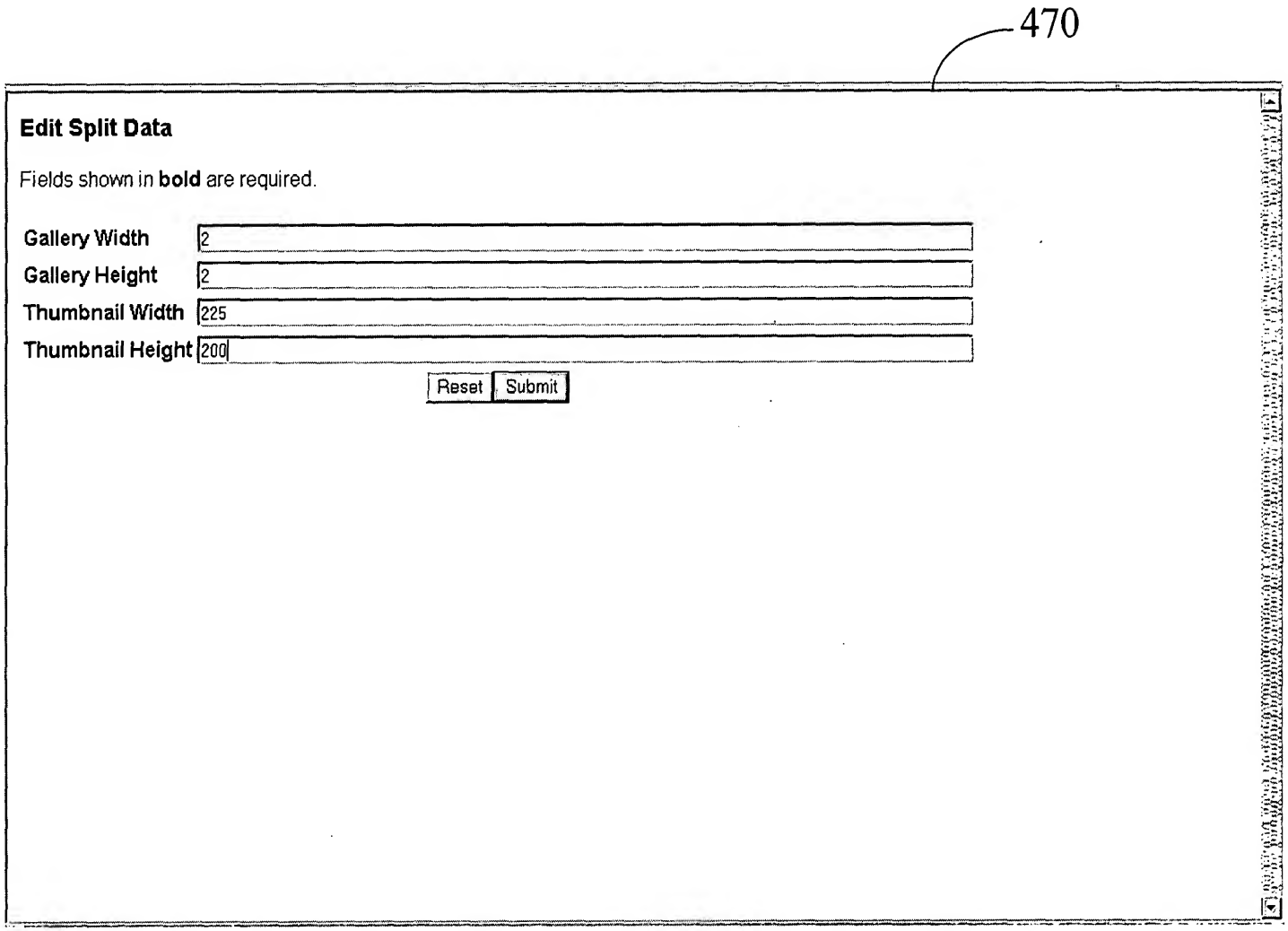
470
Edit Split Data
Fields shown in bold are required.
Gallery Width
2
Gallery Height
2
Thumbnail Width
225
Thumbnail Height
200
Reset
Submit

Fig. 4P

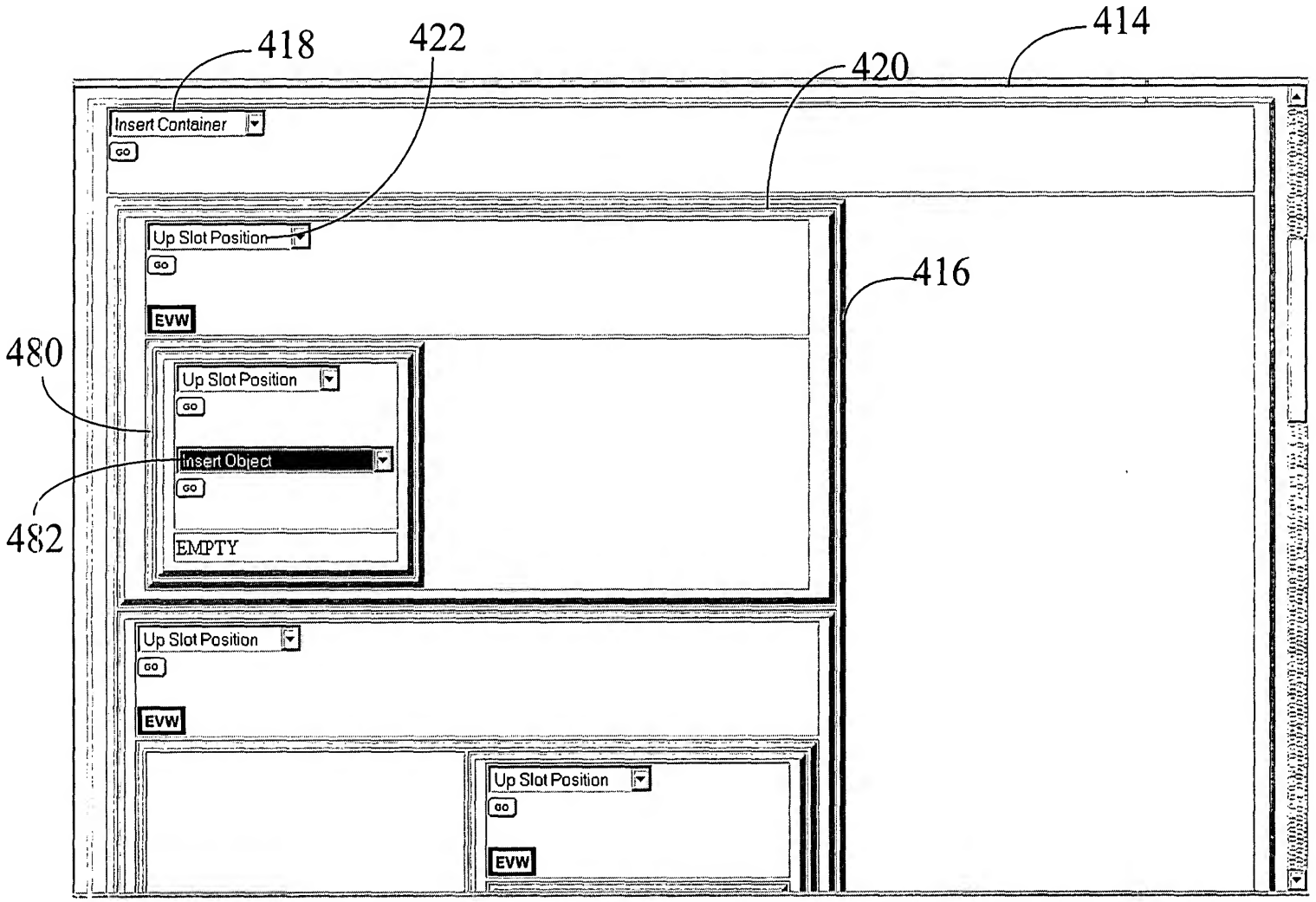
418
422
420
414
Insert Container
GO
Up Slot Position
GO
EVW
416
480
Up Slot Position
GO
Insert Object
GO
482
EMPTY
Up Slot Position
GO
EVW
Up Slot Position
GO
EVW

Fig. 4Q

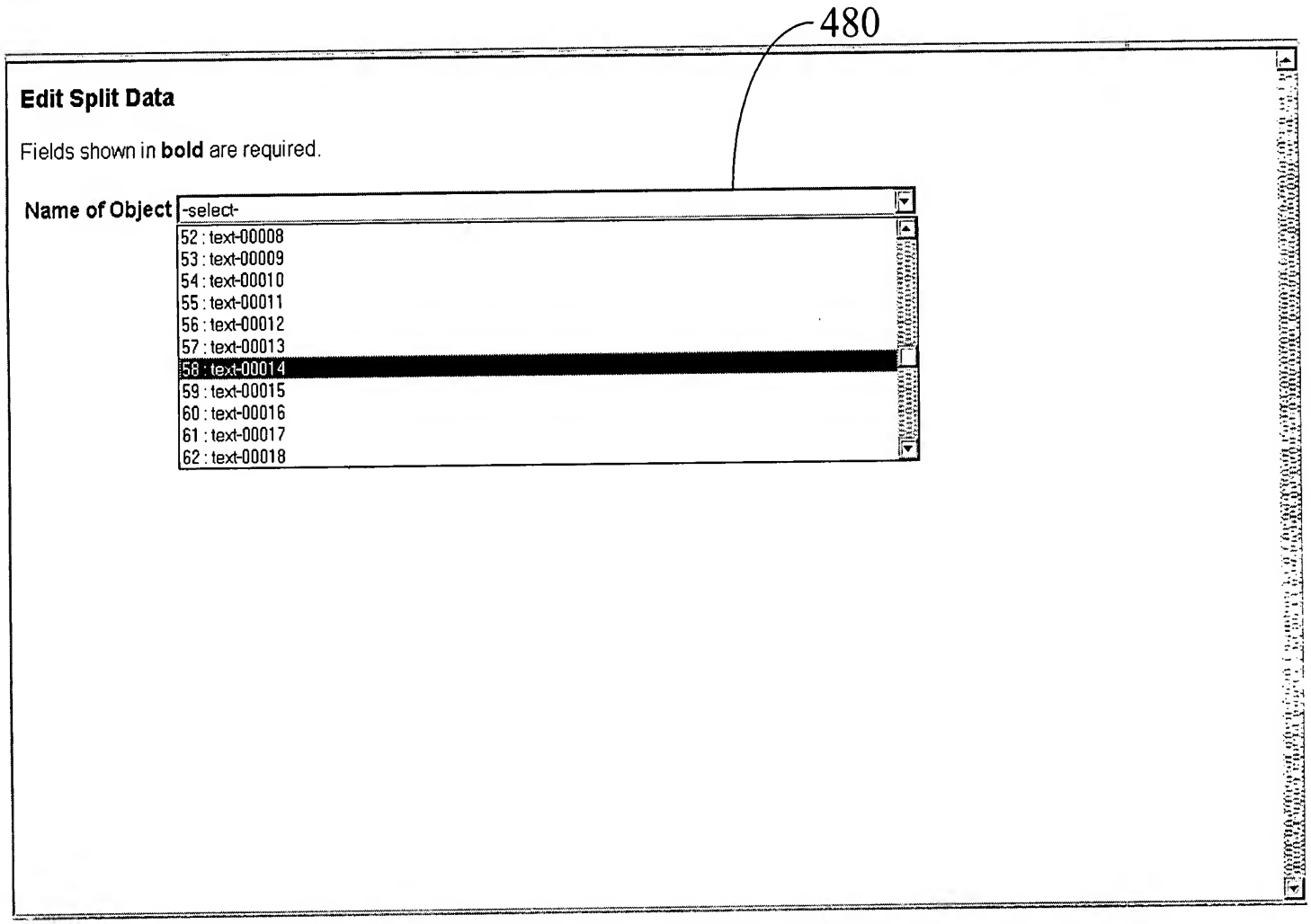
480
Edit Split Data
Fields shown in bold are required.
Name of Object
-select-
52 : text-00008
53 : text-00009
54 : text-00010
55 : text-00011
56 : text-00012
57 : text-00013
58 : text-00014
59 : text-00015
60 : text-00016
61 : text-00017
62 : text-00018

Fig. 4R

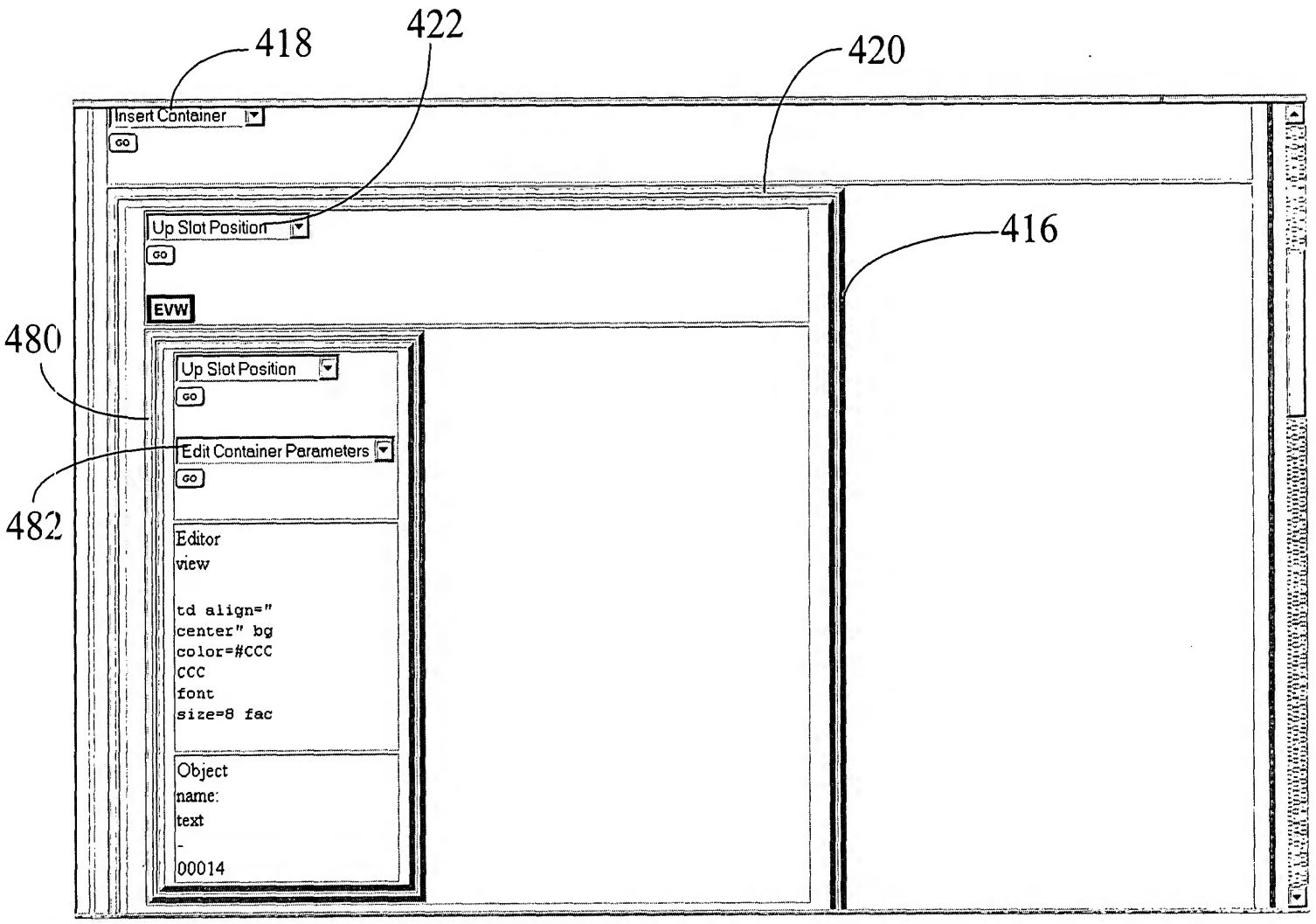
418
422
420
416
480
482
Insert Container
GO
Up Slot Position
GO
EVW
Up Slot Position
GO
Edit Container Parameters
GO
Editor
view
td align="
center" bg
color=#CCC
CCC
font
size=8 fac
Object
name:
text
-
00014

Fig. 4S

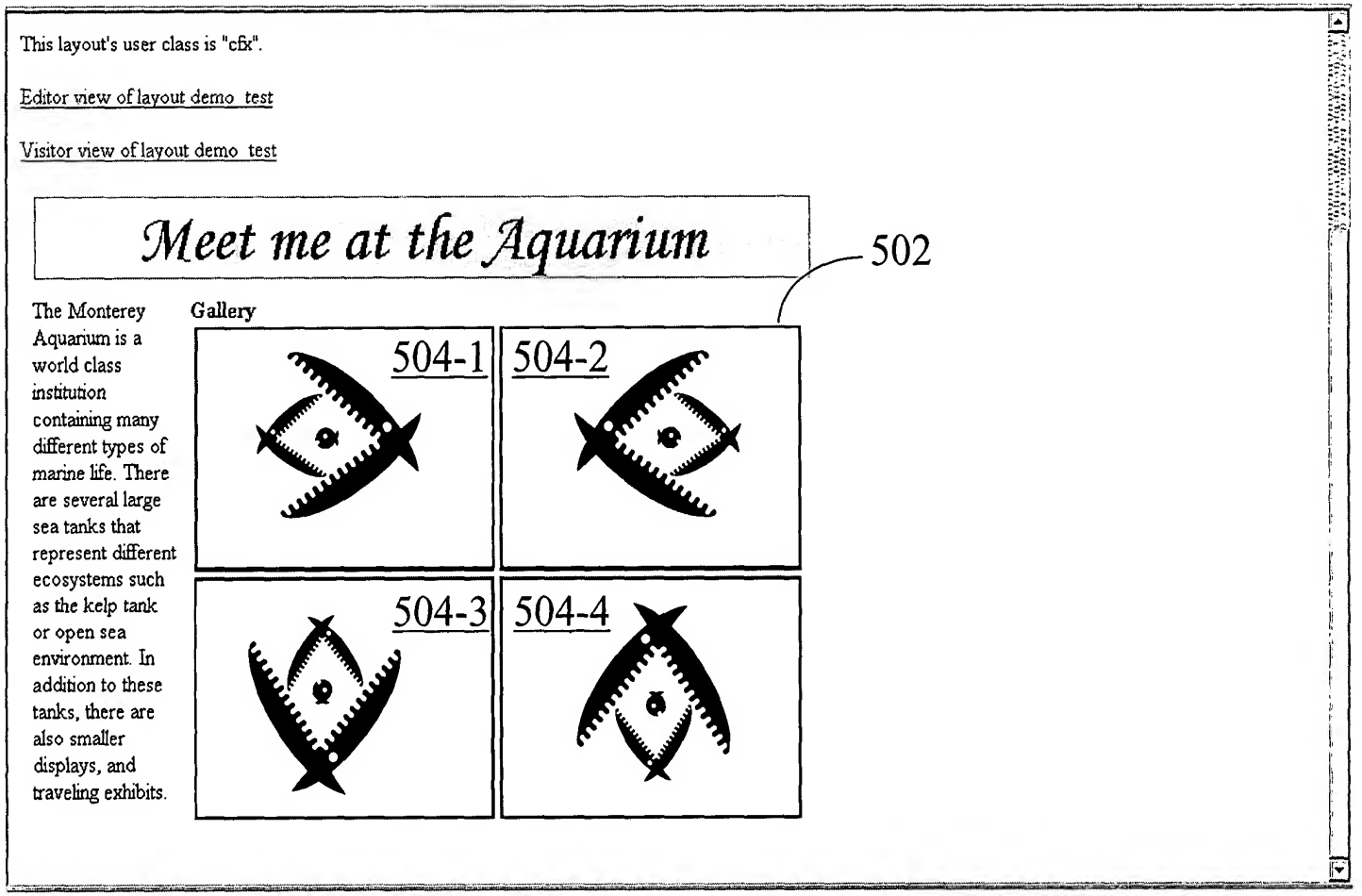
This layout's user class is "cfix".
Editor view of layout demo_test
Visitor view of layout demo_test
Meet me at the Aquarium
502
The Monterey Aquarium is a world class institution containing many different types of marine life. There are several large sea tanks that represent different ecosystems such as the kelp tank or open sea environment. In addition to these tanks, there are also smaller displays, and traveling exhibits.
Gallery
504-1
504-2
504-3
504-4

Fig. 4T

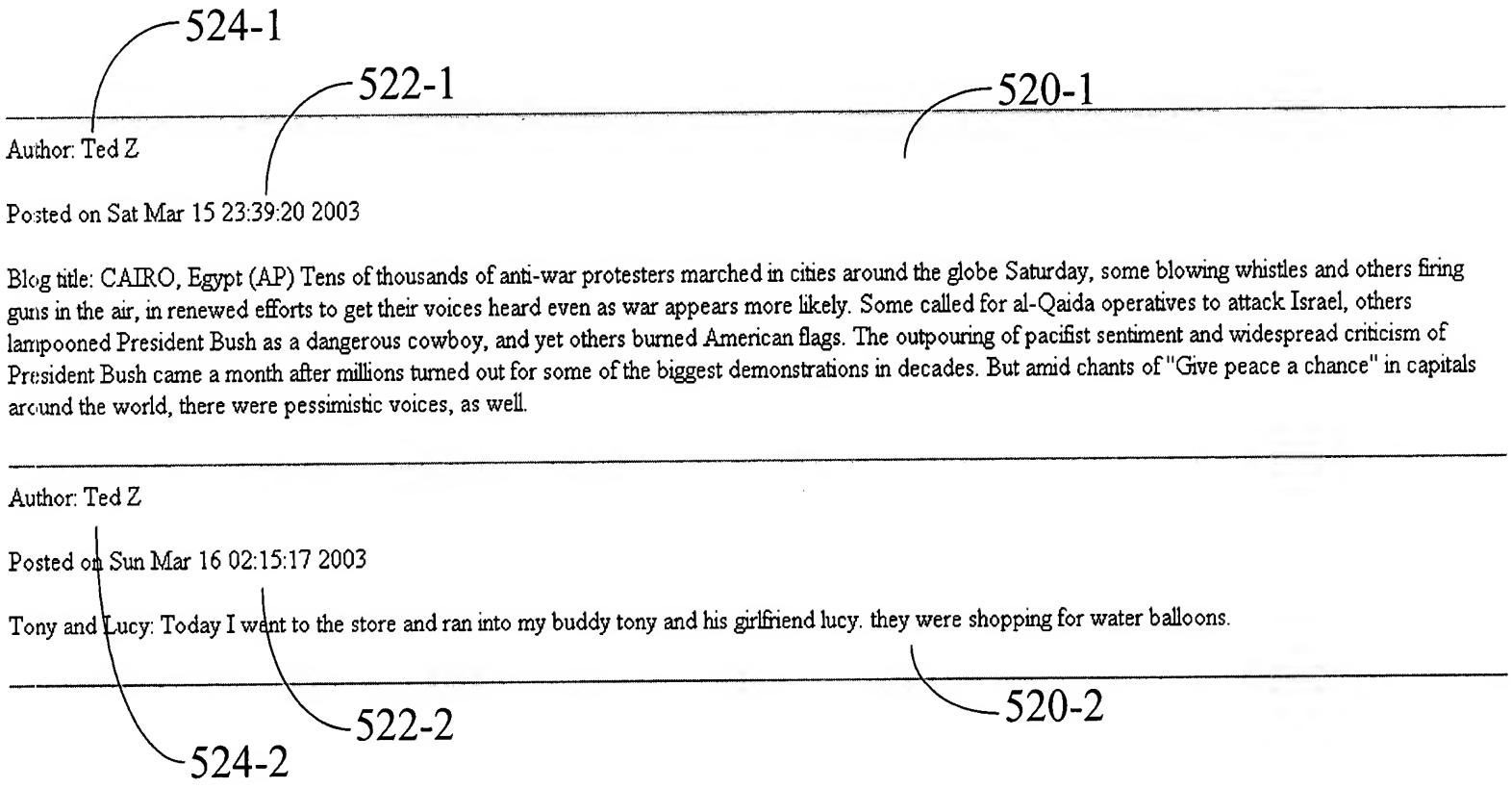
524-1
522-1
520-1
Author: Ted Z
Posted on Sat Mar 15 23:39:20 2003
Blog title: CAIRO, Egypt (AP) Tens of thousands of anti-war protesters marched in cities around the globe Saturday, some blowing whistles and others firing guns in the air, in renewed efforts to get their voices heard even as war appears more likely. Some called for al-Qaida operatives to attack Israel, others lampooned President Bush as a dangerous cowboy, and yet others burned American flags. The outpouring of pacifist sentiment and widespread criticism of President Bush came a month after millions turned out for some of the biggest demonstrations in decades. But amid chants of "Give peace a chance" in capitals around the world, there were pessimistic voices, as well.
Author: Ted Z
Posted on Sun Mar 16 02:15:17 2003
Tony and Lucy: Today I went to the store and ran into my buddy tony and his girlfriend lucy. they were shopping for water balloons.
524-2
522-2
520-2

Fig. 5